

DUPLICATE

Rec'd PCT/PTO 27 APR 2005

10/532536

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
8 July 2004 (08.07.2004)

PCT

(10) International Publication Number  
WO 2004/056585 A1

(51) International Patent Classification<sup>7</sup>: B60C 9/09, 15/00

(74) Agents: BOTTERO, Carlo et al.; PIRELLI S.p.A., Viale Sarca, 222, I-20126 Milano (IT).

(21) International Application Number:

PCT/IB2002/005537

(22) International Filing Date:

20 December 2002 (20.12.2002)

(25) Filing Language:

Italian

(26) Publication Language:

English

(71) Applicant (for all designated States except US): PIRELLI PNEUMATICI S.P.A. [IT/IT]; Viale Sarca, 222, I-20126 Milano (IT).

(72) Inventors; and

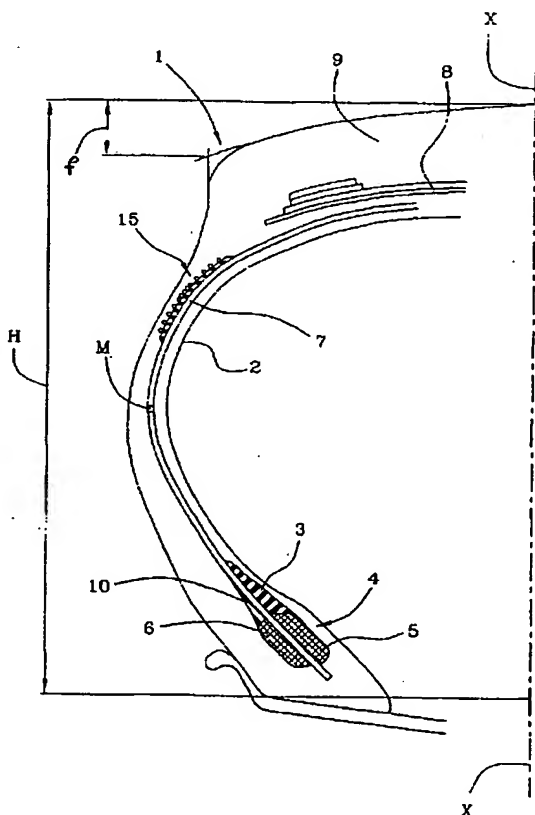
(75) Inventors/Applicants (for US only): NOTO, Rodolfo [IT/IT]; c/o Pirelli Pneumatici S.p.A., Viale Sarca, 222, I-20126 Milano (IT). LO PRESTI, Gaetano [IT/IT]; c/o Pirelli Pneumatici S.p.A., Viale Sarca, 222, I-20126 Milano (IT).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: PNEUMATIC TYRE WITH SIDEWALL REINFORCEMENT



(57) Abstract: A pneumatic tyre for vehicle wheels having a size ratio  $f/H$  less than 0.2, comprising a toroidal carcass with a central crown portion and two axially opposite sidewalls terminating with a pair of beads for anchoring of the tyre (1) to a corresponding mounting rim, each bead comprising at least one annular reinforcing core, a tread band (9) placed crownwise, coaxially extending around said carcass and provided with a raised pattern for rolling contact with the ground, and a belt structure (8) coaxially interposed between said carcass and tread band (9), said carcass comprising at least one carcass ply (7), having a continuous right-section profile, the ends of said ply extending in a radially external direction not beyond half the radial height of said annular reinforcing elements, wherein said tyre (1) comprises at least one reinforcing layer (15) associated with said carcass, at a radially external position relative to a point (M) of maximum axial width of said carcass and at a position axially external to said belt structure (8).

WO 2004/056585 A1